

## **UNIVERSITY OF NIŠ**

Course Unit Descrip	otor	Faculty	Fa	culty of Mec	chanical Engineering		
ENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Manufacturing Systems						
Level of Study	⊠Bachelor		☐ Master's		□ Doctoral		
Type of Course	☐ Obligatory		⊠ Elective				
Semester	⊠ Autumn		☐ Spring				
Year of Study	III						
Number of ECTS Allocated	5						
Name of Lecturer/Lecturers	Miodrag T. Manić, Vladislav Blagojević						
Teaching Mode	<ul><li>☑ Lectures</li><li>☑ Laboratory work</li><li>☐ Distance learning</li></ul>		<ul><li>☐ Group tutorials</li><li>☒ Project work</li><li>☐ Blended learning</li></ul>		<ul><li>☐ Individual tutorials</li><li>☑ Seminar</li><li>☐ Other</li></ul>		
Purpose and Overview (max. 5 sentences)							
Students acquire basic knowledge of the organization and functioning of production systems and stages of formation of products from concept to realization. Training students for analysis and synthesis system management of production processes. The course is targeting both the theoretical and practical aspects of the manufacturing systems.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Definition and structure of the production system, 2) The structure of the production system and the type of production, 3) Production activities, 4) Design of the product, Computer integrated manufacturing, 5) Production facilities, production operations, relationships between production and products, 6) Concepts and mathematical models of production, the price of production operations, 7) Responsibility in the production and organization of production, 8) Tasks application and forms automation of production systems, 9) Technology management system, logic synthesis management, 10) Functional diagrams programmable management, 11) System components and modules PLC_a, programming languages.							
Language of Instruction							
⊠Serbian (complete course)	☐ English (complete course) ☐ Other(complete course)						
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam		Points			

Activity During Lectures	5	Written Examination	50			
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)			
Teaching Colloquia	35	Overall Sum	100			

<sup>\*</sup>Final examination mark is formed in accordance with the Institutional documents